SAMSUNG TECHWIN

DIGITAL PRESENTER

Software User Manual (For Windows)

SDP-960

SAMSUNG

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installation

INSTALLING SAMSUNG DIGITAL PRESENTER INSTALLER PROGRAM

With Samsung Digital Presenter, you can connect it to the PC and save the video image incoming from the lens of the camera in a picture format or in a video format.

Use the provided USB cable to connect the digital presenter to the PC. Install the Samsung Digital Presenter program on your PC, which is contained in the provided CD.

❖ Design and specifications are subject to change without prior notice.

SYSTEM REQUIREMENTS

- CPU: Pentium 4 or higher (recommendation: Core 2 Duo or higher)
- Windows XP Service Pack3 or later
  - Windows OS compatibility: Windows XP(Service Pack 3)/Windows Vista(Service Pack 1)/Windows 7
- RAM: 512MB or more (more than 2GB recommended)
- USB 2.0 Port
- Graphic adaptor supporting XGA (1024x768) in more than 65,536 colors
  - Video RAM 256MB or more
  - SXGA or higher recommended
- CD-ROM Drive

▪ A PC into which a PCI/PCMCIA-type USB 2.0 card is inserted may not exert USB 2.0 communication performance of the digital presenter properly.

▪ If you use a specific theme supported in Windows 7, the USB viewer may not perform the display functions properly. It is recommended to use the default Windows 7 theme.

▪ For Windows 7 users, it is recommended to specify at least 5.0 for the Windows Experience Index (WEI).

▪ The Windows 7 64 bit edition may not support the viewer in some languages excluding English and Korean.

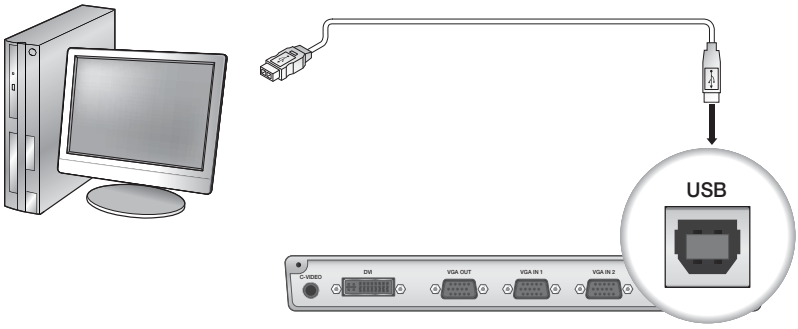
INSTALLING THE PROGRAM

Following the instructions below to install the program.

1. Use the USB cable to connect between Samsung Digital Presenter and PC. Then, turn on the digital presenter.
2. Install the Samsung Digital Presenter program.
   For more information, refer to "**Installing Samsung Digital Presenter installer program**". (page 5)

Connecting Samsung Digital Presenter to the PC

Connect one end of the USB cable to the USB port of the PC, and the other end to that of the digital presenter.
Plug the power cable and turn on the presenter.

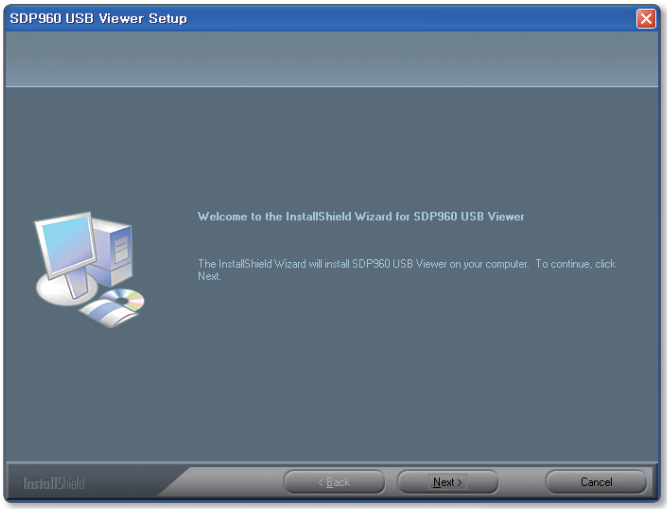


Digital Presenter

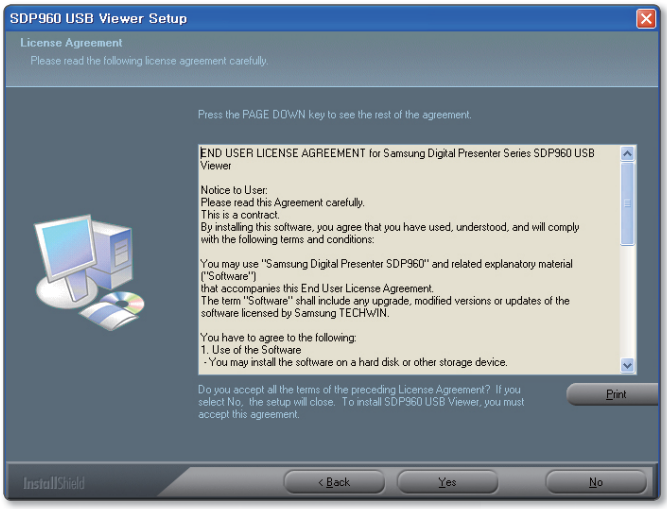
- It is recommended to connect the USB cable to the USB port on the main board of your PC.
  (Using an extension front port or the bus-power USB hub may cause a problem, depending on the manufacturer.)
  Use only the USB cable of less than 4.0m in length.

Installing Samsung Digital Presenter installer program

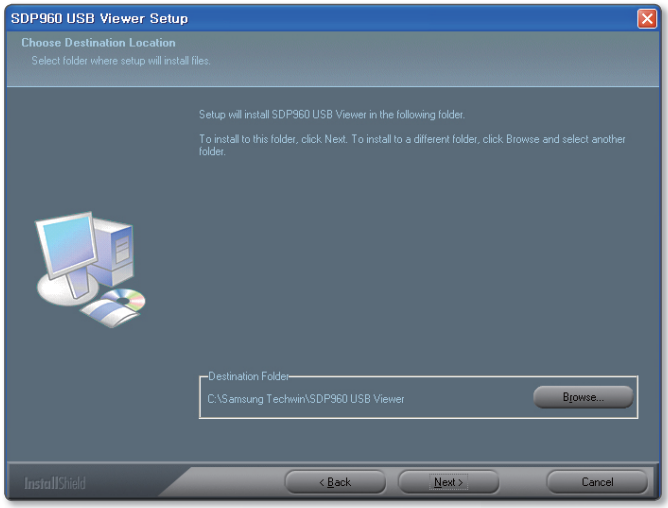
1. Before connecting the digital presenter to the PC, you must install the provided installer software on your PC before making USB connection so that the presenter can display video properly.
2. Insert the installation CD to start Auto Run –supported installation. Select a preferred language and click Install Viewer to start installation.
3. From the start screen of the Wizard, click [**Next**].


SDP960 USB Viewer Setup
Welcome to the InstallShield Wizard for SDP960 USB Viewer
The InstallShield Wizard will install SDP960 USB Viewer on your computer. To continue, click Next.
InstallShield
< Back
Next >
Cancel

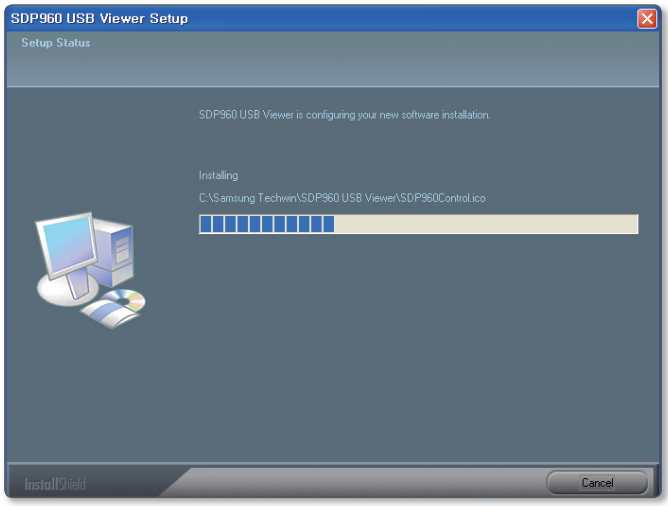
4. The end-user license agreement will be displayed. Click [**Yes**].


SDP960 USB Viewer Setup
License Agreement
Please read the following license agreement carefully.
Press the PAGE DOWN key to see the rest of the agreement.
END USER LICENSE AGREEMENT for Samsung Digital Presenter Series SDP960 USB Viewer
Notice to User:
Please read this Agreement carefully.
This is a contract.
By installing this software, you agree that you have used, understood, and will comply with the following terms and conditions:
You may use "Samsung Digital Presenter SDP960" and related explanatory material ("Software")
that accompanies this End User License Agreement.
The term "Software" shall include any upgrade, modified versions or updates of the software licensed by Samsung TECHWIN.
You have to agree to the following:
1. Use of the Software
- You may install the software on a hard disk or other storage device.
Do you accept all the terms of the preceding License Agreement? If you select No, the setup will close. To install SDP960 USB Viewer, you must accept this agreement.
Print
InstallShield
< Back
Yes
No

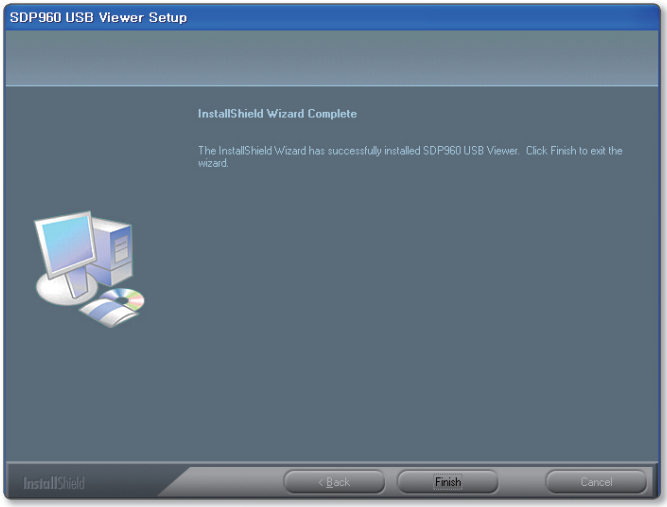
5. Specify the folder path to save the installation program.
6. To proceed with the next step, click [**Next**].


SDP960 USB Viewer Setup
Choose Destination Location
Select folder where setup will install files.
Setup will install SDP960 USB Viewer in the following folder.
To install to this folder, click Next. To install to a different folder, click Browse and select another folder.
Destination Folder
C:\Samsung Techwin\SDP960 USB Viewer
Browse...
InstallShield
< Back
Next >
Cancel

7. SDP960 USB Viewer will be installed.



8. When the installation is completed, click [**Finish**] to exit the installer program.



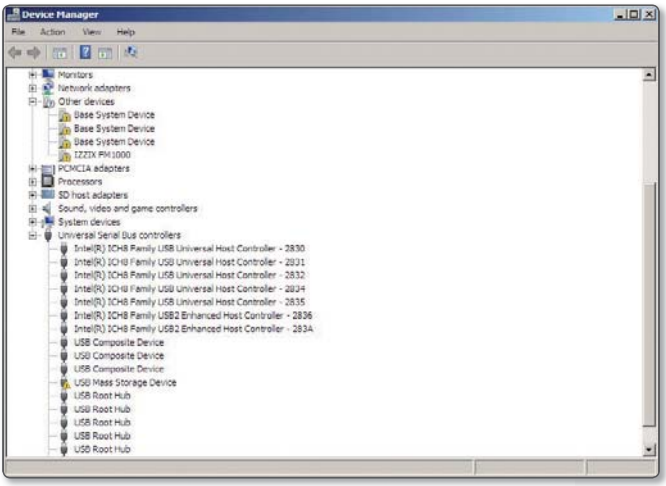
9. On your desktop, the shortcut to Samsung Digital Present will be created. The program shortcut menu and product manual shortcut will be created in the [**Start**] menu.

- You may encounter an error message related to .NET FRAMEWORK during the installation. This is because .NET FRAMEWORK is not installed on your PC. Install the .NET FRAMEWORK provided in the installation CD before installing the program. The error message will be displayed. (.Net Framework 2.0 or later required)

Questions & Answers

How can I check that my computer supports USB protocols?

1. Let us respond to your question based on Windows Vista. For other Windows system users, locate the Device Manager through a different path.
2. On desktop of the Windows Vista system, select [Control Panel] ➞ [System] ➞ [Device Manager].
3. If you can see the USB Universal Host Controller and USB root hub as shown below, your PC has installed and is running the USB protocols properly.
4. USB 2.0 protocol is supported on your PC if the USB Enhance Host Controller item is displayed as shown.


Device Manager
File Action View Help
Monitors
Network adapters
Other devices
Base System Device
Base System Device
Base System Device
IZZIX PM1000
PCMCIA adapters
Processors
SD host adapters
Sound, video and game controllers
System devices
Universal Serial Bus controllers
Intel(R) ICH8 Family USB Universal Host Controller - 2830
Intel(R) ICH8 Family USB Universal Host Controller - 2831
Intel(R) ICH8 Family USB Universal Host Controller - 2832
Intel(R) ICH8 Family USB Universal Host Controller - 2834
Intel(R) ICH8 Family USB Universal Host Controller - 2835
Intel(R) ICH8 Family USB2 Enhanced Host Controller - 2836
Intel(R) ICH8 Family USB2 Enhanced Host Controller - 283A
USB Composite Device
USB Composite Device
USB Composite Device
USB Mass Storage Device
USB Root Hub
USB Root Hub
USB Root Hub
USB Root Hub
USB Root Hub

How can I uninstall the USB driver and Samsung Presenter Program?

Select [Control Panel] ➞ [Add/Delete Programs]. Select SDP960 USB Viewer from the list and click [Add/Delete] to start uninstalling or restoring the program to your preference. Follow the on-screen instructions to uninstall the program.

- Samsung Digital Presenter does not require you to install/uninstall the USB driver.
  Unlike other conventional models, the presenter that supports UVC protocols can be connected directly to your PC via USB cable without the installation process.

- If you want to use the TWAIN feature, install the TWAIN driver provided in the installation CD. You can use the features of Viewer and TWAIN. However, if you do not want to use TWAIN, it is recommended not to install the TWAIN driver. And use the product with no other UVC driver than the default.

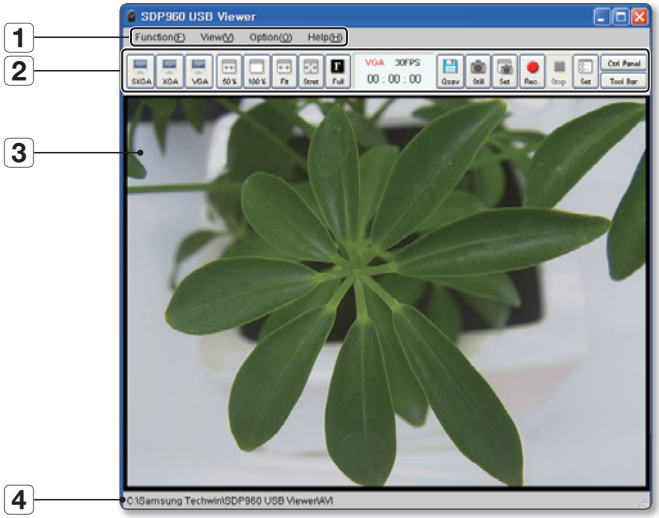
RUNNING THE SAMSUNG DIGITAL PRESENTER PROGRAM

Following the instructions below to run the program.

1. Turn on both Samsung Digital Presenter and PC.
2. Simply double-click the shortcut to Samsung Digital Presenter on your desktop, or select [Start] ➞ [Programs] ➞ [SDP960 USB Viewer].
3. You will see the start screen of the digital presenter consisting of: main screen and control pane.

- If you fail to start the program, check if the presenter is turned on and connected to the PC properly using the USB cable. Check also if the **USB MODE** under **MISC. SETTING** of the digital presenter menus is set to **IMAGE**. If it is set to **DISK**, the presenter will not be launched.
- Do not unplug the power cable or disconnect the USB cable while playing/capturing/saving a video clip using the digital presenter. Otherwise, it may cause a failure or damage to the digital presenter or PC.

Main Panel of Samsung Digital Presenter at a Glance

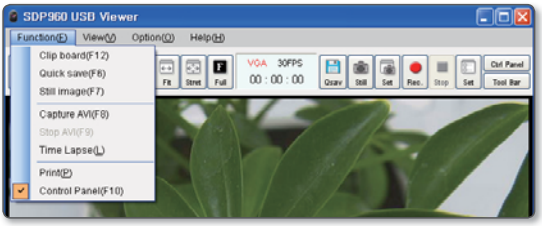


Item	Description
1 Menu Bar	Consists of 4 menus: Function, View, Option, Help.
2 Toolbar	A collection of frequently used menus. You can hide the tool bar for a larger view of the image. (Use the applicable button in the menu bar.)

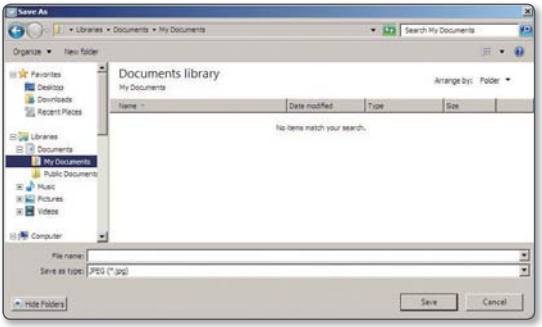
Item	Description
3 Video Playback	The display area of the image from the lens of the digital presenter. You can move to the preview screen that enables you to save the image or record the video.
4 Video Saving Path	Display the saving path of the current video. (You can change the path in the recording options.)

Main Menu At a Glance

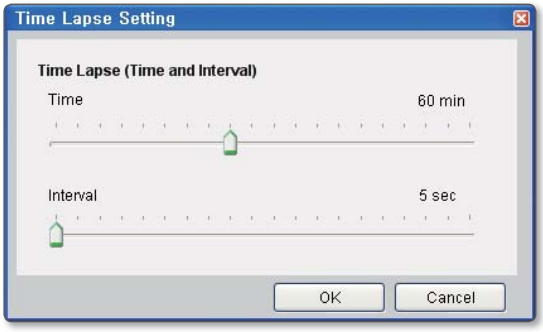
❖ [Function] Menu



- **Clip board**
  You can capture the current video and save it to the clipboard. Then, the video clip can be inserted in various programs using the Windows paste menu. (Shortcut Key: F12)
- **Quick save**
  Save the current video clip to the specified path in JPEG format. You can change the saving path and quality using the Quick Save options. (Shortcut Key: F6)
  The file name will be created automatically in the format of: YYYYMMDDHHMMSS.jpg based on the current time, and you cannot change the name at your own.
  (Ex: captured at 19:27:12 April 04, 2011 -> 20110404192712.jpg)
- **Still image**
  You can capture and save the current image. Specify the saving path and file format (JPEG, BMP). (Shortcut Key: F7)



- **Capture AVI**
  Start recording the current video in the defined settings. For more information, refer to the recording section later in this manual. (Shortcut Key: F8)
- **Stop AVI**
  This will be activated when video recording is started. If you press the Stop Record button, recording will end and the recording file will be saved in a safe path. (Shortcut Key: F9)
- **Time Lapse**
  Select this to display the following window.



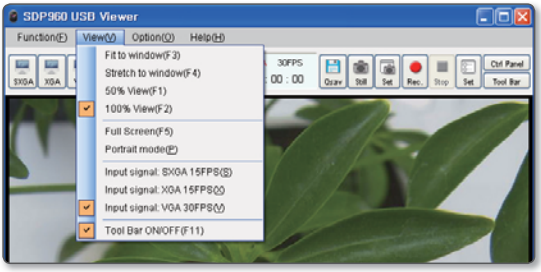
Frame Record will record one frame of the currently being recorded video at a specified time. If you set the time to 5 seconds, one frame for every 5 seconds will be recorded. The video recorded by Frame Record can be played as in the high-speed cinematography effect.

You can specify the recording time to your preference. The recording quality will be set as you specified in the record options. (Playback of the video clip recorded by Frame Record will be limited to 15 frames per second.)

- If the video clip is not played properly, upgrade the player's CODEC with the latest version and try again.
- The video clip recorded by the presenter is compressed using MJPG CODEC. It is recommended to upgrade the player with the latest CODEC supporting MJPEG.

- **Print**
  Print out the current image. You can print out the current image using a selected printer.
- **Control Panel**
  You can show or hide the control panel in the top right corner of the viewer. (Shortcut Key: F10)

❖ [View] Menu



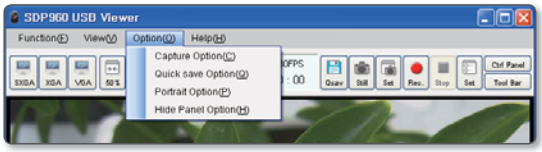
- **Fit to window**
  Fit the current image to the width of the window. Regardless of the window size, the image or video clip will be displayed according to the input source. The height of the video will extended in proportion to the width. (Shortcut Key: F3)
- **Stretch to window**
  Fit the current image to the window. (Shortcut Key: F4)
- **50% View**
  Zoom out the image to 50% of the original. (Shortcut Key: F1)
- **100% View**
  Restore the original size of the image. (Shortcut Key: F2)
- **Full Screen**
  Display the current image in full screen.
  Normal ➞ Full Screen (shortcut: F5), Full Screen ➞ Normal (shortcut: ESC)
- **Portrait mode**
  Cut the current image to a specific size as appropriate to the portrait.
  (The default size is: 3 in width, 4 in height.)

  In Portrait mode, video recording will be disabled. You can just capture the current image.

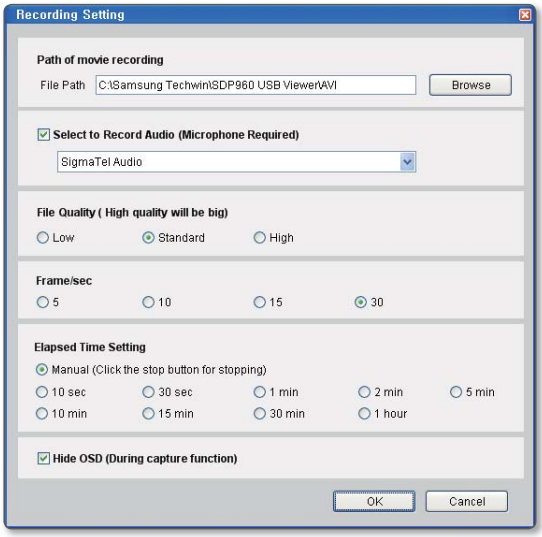
  You can change the aspect ratio in [Option] ➞ [Portrait]. For more information, refer to the Portrait Option.
- **Input signal Setup**
  Samsung Digital Presenter supports three quality modes: SXGA, XGA and VGA. For a faster real-time recording, select VGA; for a sharper and bigger image, select SXGA; for the best picture quality, select XGA. The video resolution used in saving the video or image will be set to the resolution of the input source.

  - Video recording of VGA input source allows you to save the video in a higher frame than SXGA or XGA but it may cause deterioration of the sharpness or quality of the video.
  - SXGA or XGA supports 15FPS while VGA supports playing video in 30FPS.
- **Tool Bar ON/OFF**
  You can show or hide the toolbar under the menu bar. (Shortcut Key: F11)

❖ [Option] Menu



- **Capture Option**
  You can configure the video recording settings in detail.



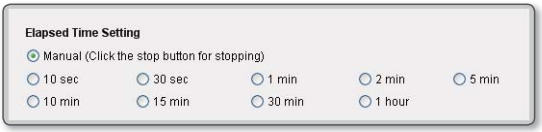
- Specify the saving path of the recorded video.
  The default path is set to “C:\Samsung T echwin\SDP960 USB Viewer\AVI”.

- You can select to include the audio signal in the video. You will need a microphone when recording video including the audio signal.

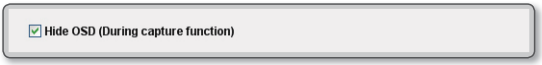
- Specify the quality of the video that you want to record. “High” quality will cost you more storage space.

- Specify the frame rate/sec of the video that you want to record.
  However, the frame rate of 30 is not available in SXGA or XGA input mode.

- Specify the video recording time. Select “Manual” if you want to save the recording at a desired moment by pressing the Stop button. You can specify the time as you want without limitation.

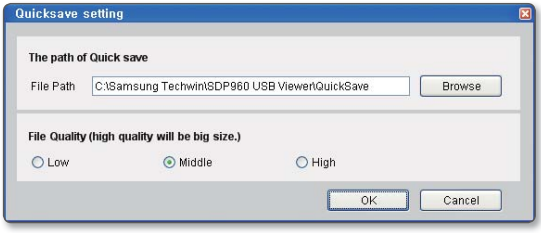


- If you use the functions of ZOOM, FOCUS and BRIGHTNESS, the applicable gauge indicator will be displayed on the screen. Select this option if you want to hide the OSD gauge during the recording.



- **Quick save Option**

  You can specify the saving path and quality of the video that you want to save quickly.

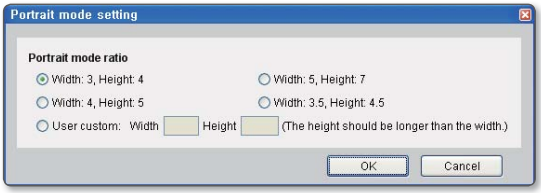


  - Specify the saving path of the video.
    The default path is set to “C:\Samsung Techwin\SDP960 USB Viewer\QuickSave”.

  - Select a quality of the video that will be saved by Quick Save.
    The better the quality is, the greater the file size is.

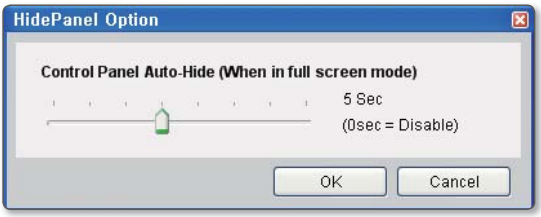
- **Portrait Option**

  Specify the width and height of an ID picture. 4 choices commonly used are available, or you can specify the aspect ratio manually by custom setting.

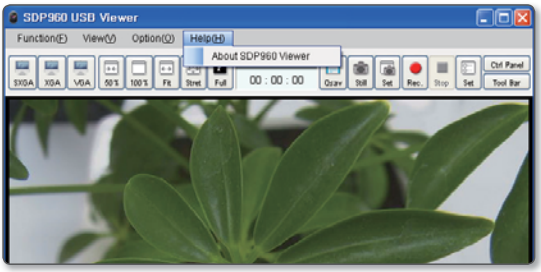


- **Hide Panel Option**

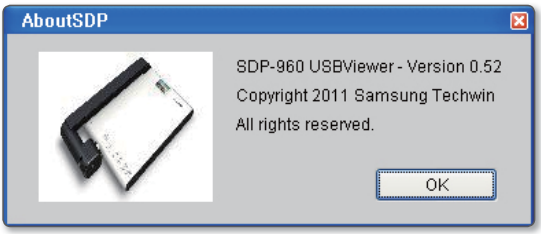
  In full screen mode, you can specify the time the mini control panel is hidden.
  Selecting 0 second will not hide the control panel.



❖ [Help] Menu

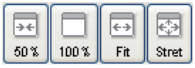
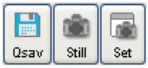


You can check the program version of the current SDP960 USB Viewer.
Press [About SDP960 Viewer] to display the message below where you can check the program version.



Toolbar

A collection of frequently used buttons is located under the menu bar.

	Input signal selection button. (SXGA, XGA, VGA)
	Change the view mode. (50%, 100%, fixed ratio, fit the window)
	Full screen mode.
	Saving options: Quick Save, Still Image, and Quick Save options.
	From the left, Save video, Stop Recording and Record options.
	You can show or hide the control panel in the top right corner.
	Press this to hide the tool bar under the menu bar. For more information, refer to the Menu Bar section in this manual. (page 12)

Status Display

Information of the current video will be displayed including resolution, frame rate and recording time.

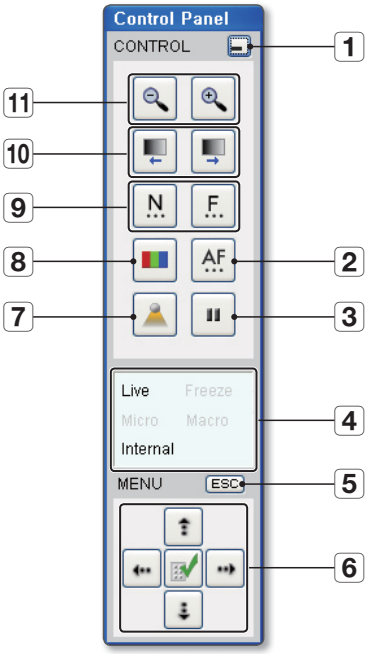
If recording is yet to start, the status bar displays 30FPS for VGA, and 15FPS for SXGA or XGA. The recording time displayed is the last recording time. (The default is set to 00:00:00.)
When the recording gets started, the current frame rate and recording time will be displayed.
(During the recording, the two items will be highlighted in green.)

Learning about the control panel of Samsung Digital Presenter

You can use Samsung Digital Presenter program to change the settings of the video image from the presenter and configure the menu settings.

Using the control panel

- In the control panel, you can perform or set: Zoom, Brightness, Focus, Color, lamp, and Freeze.
- The configuration of the control panel buttons is the same as the control panel of the presenter or the buttons on the remote control. For more information, refer to the user manual of the digital presenter.



Item	Description
1 Hide Control Panel	Hide the control panel.
2 AF	Fit the focus automatically.
3 FREEZE	Each time you press this button, it will toggle between Freeze On and Off. ▪ If **FREEZE** is set to **DVI/VGA/CVBS ONLY** in **MISC. SETTING**, the video on the USB viewer will not be frozen. Select **ALL DISPLAY** if you want to freeze the USB video.

Item		Description	
4	Display of Function, Status and Mode	LIVE	If the current mode of the presenter is set to LIVE, the indicator will be displayed. However, it will not displayed in PICTURE LIST or MOVIE LIST mode. The upper 10 function buttons will be deactivated in other than LIVE mode.
		Freeze	Display the status of the freeze function: ON/OFF.
		Micro	It will be displayed in Microscope mode. Press ESC to exit the mode.
		Macro	It will be displayed in Macro mode. Press ESC to exit the mode.
		Internal/External	Display the internal video of the digital presenter or the external video from an external player.
5	ESC	Use to exit the OSD menu mode. You can also exit the Microscope or Macro mode and return to the standard mode by pressing ESC.	
6	OSD Menu Setup	Select an OSD menu and use the direction buttons to make your settings. ▪ If this menu is open, the digital function buttons will be disabled.	
7	Lamp On/Off	Turn on/off the upper lamp.	
8	AWB	Adjust or correct the colors automatically. ▪ This is available only if **WB MODE** under **IMAGE ADJUSTMENT** of the OSD menu is set to **AWB(KEY)**.	
9	Near / Far	You can adjust the focus manually.	
10	BRIGHTNESS +/-	Open or close the iris of the digital presenter to adjust the screen brightness.	
11	Wide / Tele	Zoom in or out the current image.	

running the program

Using the mini control panel

- In full screen mode, the mini control panel smaller than the normal will be displayed.

Item	Description
1 **Show/Hide Window**	Show or hide the mini control panel, or switch to the normal control panel view.
2 **Quick save**	Save the current video quickly.
3 **Freeze**	Each time you press this button, it will toggle between Freeze On and Off. (If **FREEZE** under **MISC. SETTING** of the OSD menu is set to **DVI /VGA/CVBS ONLY**, the video on the USB viewer will not be frozen. Select **ALL DISPLAY** if you want to freeze the USB video.)
4 **Video Status Display**	Show the video information such as the current frame rate or recording time.
5 **Video Setup**	Record or stop recording a selected video.
6 **Brightness + / -**	Open or close the iris of the digital presenter to adjust the screen brightness.
7 **Wide / Tele**	Zoom in or out the current image.
8 **ESC**	Switch from Full Screen mode to normal mode.

Using only the control panel

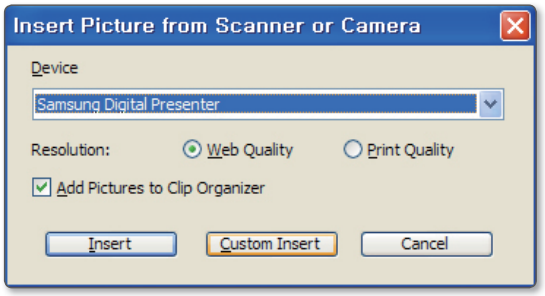
- You can use other programs (Skype, Twain, AMCAP) than the provided SDP960 USB Viewer to view the USB video of the digital presenter. If this is the case, click the SDP960 Control icon on your desktop to launch the control panel only.

- The SDP960 Control program will run only if the digital presenter is turned on and connected to the PC using the USB cable.

Using the TWAIN driver of the digital presenter

1. If you want to use the TWAIN driver of the digital presenter, the following system requirements should be met:
   - Install the driver specific to the digital presenter TWAIN (provided in the installation CD)
   - Graphic application program in compliance with TWAIN (ex: Photoshop, ACDSEE, MS Office, etc)
   - Device Menu: **MISC. SETTING → USB TWAIN → USE**
     - If **USB TWAIN** is not set to **USE**, the video will not be played properly.
       If you install the TWAIN driver, be sure to set the **USB TWAIN** option to **USE**.

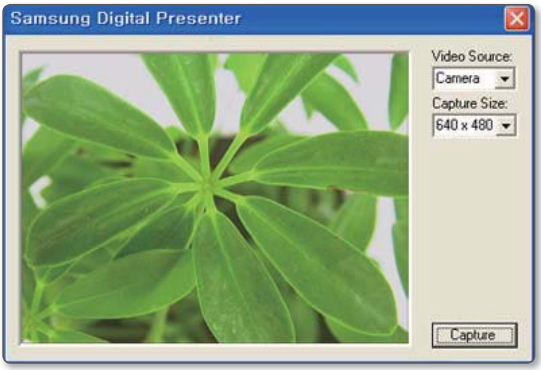
2. Select the TWAIN driver in the graphic application program.
   1) For Adobe Photoshop
      Move to [File] → [Import] and select Samsung Digital Presenter.
   2) For Microsoft Office Word 2003
      Select [Insert] → [Picture] → [Insert Picture from Scanner or Camera].
      Select Samsung Digital Presenter, and press [Custom Insert].



   3) For other applications supporting the TWAIN driver, refer to the user manual of the applicable application program.

❖ Scan Image

1. Owing to the TWAIN driver, the video from the digital presenter will be displayed on the screen. Select a size of the image that you want to scan using TWAIN.



2. When done, click [**Capture**] to start scanning.
3. When the screen capture is completed, the captured video will be transferred to the graphic application.
4. According to the graphic application, you can exit the TWAIN driver or select to keep running the program for a continuous transfer of scanned images. For more information, refer to the user manual of the graphic application.

▪ Not all of the graphic applications will support the TWAIN driver.

appendix

COMMONLY USED SHORTCUTS

- [F1]
  50% View
- [F2]
  100% View
- [F3]
  Fit to window
- [F4]
  Stretch to window
- [F5]
  Full Screen
- [F6]
  Quick save
- [F7]
  Still image
- [F8]
  Capture AVI
- [F9]
  Stop AVI
- [F10]
  Turn the control panel on/off
- [F11]
  Turn the toolbar on/off
- [F12]
  Save to clipboard

appendix

TROUBLESHOOTING

Problem	Solution
If the digital presenter fails to operate	This is mainly because the digital presenter is not connected to the PC properly using the USB cable. • Ensure that the presenter is connected properly using the USB cable. • Terminate all other graphic applications (occupying the USB or system resources in large portion) that may affect the digital presenter program. • Turn off the digital presenter and restart it after 10 seconds. Then, run the program again.
"Error in USB connection. Connect the USB cable and try again. (The USB 1.1 protocol is not supported. Use USB 2.0 protocols.)" Error Message	This is because the digital presenter is not connected to the PC properly using the USB cable. • Check if the digital presenter turns off or if the USB cable is disconnected. • Ensure that the length of the USB cable that is connected between presenter and PC is less than 4m. • If too many application programs are running on your PC, the video transfer may fail due to insufficient memory or resource. • Check if the **USB MODE** of **MISC. SETTING** is set to **IMAGE**. If it's set to **DISK**, the video transfer will be deactivated. Set it to **IMAGE** and try again. • The USB 1.1 protocol is not supported by the digital presenter. Using the USB 1.1 port will fail to transfer the video. Use USB 2.0 port.
"The program is already running." Error Message	This is the case that you simply run the program again that is currently running. • If you re-run the currently running program, it does not open another instance of the program. You will just see an error message. • If the program is terminated abnormally, disconnect the USB cable and connect it back, or reboot the Windows OS.
If the device is not recognized	• If the digital presenter is not recognized by the system, reboot your system and try again.
"You have no access to the folder." Error Message	• In Windows Vista or Windows 7, you may have limited access to the file depending on the user permission. Try again with the administrator account, or save the file in the folder (normally, C:\~) that you have access to.

Problem	Solution
"The SP version of the current OS is low." Error Message	• In Windows XP or Vista, the USB device may not be recognized or fail to operate by system default. If this is the case, install the latest service pack on your PC and try again.
"Fail to save the image." Error Messa	You will see the error message in the following cases: • You have specified the Quick Save or image saving path to an unavailable folder such as CD-ROM drive, or try to save a write-protection removable disk. Change it to an internal HDD path and try again. • The library required to save the image is deleted or damaged. Uninstall the digital presenter and install it again.
The video playback is too slow.	• The USB device uses CPU resources for data transfer. If your PC has a low specification or you are running background applications that occupy much of the system resources, the USB viewer may be deteriorated in performance. It is recommended to run the USB Viewer of the digital presenter alone if possible. • If you are using an integrated graphic adapter of DVMT (Dynamic Video Memory Technology) type, the low-specification graphic adapter has a limit to process the image, causing deteriorated performance or unintended overlap of images.
The video is not played properly.	• If the video clip is not played properly, upgrade the player's CODEC with the latest version and try again. • The video clip recorded by the presenter is compressed using MJPG CODEC. It is recommended to upgrade the player with the latest CODEC supporting MJPEG.

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